

## **Section 318—Selected Material Surface Course**

### **318.1 General Description**

This work includes constructing a surface course with soil and/or stone. Construct according to these Specifications and to the lines, grades, and typical cross-sections shown on the Plans or established by the Engineer.

Apply the requirements of Section 300 to this Item unless modified by this Specification.

#### **318.1.01 Definitions**

General Provisions 101 through 150.

#### **318.1.02 Related References**

##### **A. Standard Specifications**

Section 205 – Roadway Excavation

Section 300—General Specifications for Base and Subbase Courses

Section 303—Topsoil, Sand-Clay or Chert Construction

Section 800—Coarse Aggregate

Section 803—Stabilizer Aggregate

Section 814—Soil Base Materials

Section 815—Graded Aggregate

##### **B. Referenced Documents**

General Provisions 101 through 150.

#### **318.1.03 Submittals**

Submit a “Request for Material Approval.”

### **318.2 Materials**

Ensure that materials meet the requirements of the following Specifications:

<b>Material</b>	<b>Section</b>
Topsoil and Sand Clay	814.2.01
Chert	814.2.04
Graded Aggregate	815.2.01, and notes 1 and 2, below. 815.2.02, and notes 1 and 2, below.
Coarse Aggregate, Size No. 467, 3, or 4	800.2.01
Stabilizer Aggregate (Type as Designated)	803

**NOTE 1. Use Subsection 815.2.02, “Unconsolidated Limerock” as aggregate surface course only if the material gradation meets the requirements of Subsection 815.2.01, “Graded Aggregate.”**

**NOTE 2. When a Project requires an aggregate surface course to be placed and left as a riding surface, use only graded aggregate that meets the requirements of Subsection 815.2.01, “Graded Aggregate.”**

##### **A. Satisfactory Material**

Use in-place roadbed or driveway material when determined to be acceptable by the Engineer.

##### **B. Unsuitable Material**

Remove roadbed materials unsuitable for use as determined by the Engineer.

**C. Additional Material**

To add materials to those in the roadbed or to build up the surface course entirely, use materials approved by the Engineer.

**318.2.01 Delivery, Storage, and Handling**

General Provisions 101 through 150.

**318.3 Construction Requirements****318.3.01 Personnel**

General Provisions 101 through 150.

**318.3.02 Equipment**

General Provisions 101 through 150.

**318.3.03 Preparation**

If constructing the course entirely of new materials, prepare the subgrade as specified in Subsection 300.3.03.C, “Preparing the Subgrade.” If using in-place material, ensure that the surface has been properly shaped. Do not place materials on muddy or frozen subgrade.

**318.3.04 Fabrication**

General Provisions 101 through 150.

**318.3.05 Construction**

Spread selected material by approved method to the thickness prescribed on the Plans.

Scarify, mix, and shape the selected material to the required cross section. Roll until the surface is thoroughly compacted, firm, and unyielding. Add water to assist scarifying and compaction.

Where in place materials are approved for use, scarify, mix, shape and compact according to the Specifications for the applicable material.

When stabilizer aggregate is specified, mix it into the surface course according to Subsection 303.3.05.B.3, “Stabilizing.”

Where aggregate surface course is specified, spread the specified aggregate or stabilizer material uniformly to the required depth at locations shown on the Plans or as directed by the Engineer.

**318.3.06 Quality Acceptance**

General Provisions 101 through 150.

**318.3.07 Contractor Warranty and Maintenance**

Maintain the finished surface course to the required cross section and usable, until the Project is completed and accepted.

**318.4 Measurement****A. Selected Material Surface Course**

This Item, furnished, complete in place and accepted, is measured by the cubic yard (meter), loose volume as specified in Section 109.

**B. In-Place Selected Material Surface Course**

This Item is measured in place, on the roadway, in square yards (meters). The actual length is measured along the surface of the surface course, and multiplied by the Plan width. Where this item is on driveways or other irregular areas, the quantity is the actual number of square yards (meters) completed in place and accepted.

**C. Stabilizer Aggregate and Aggregate Surface Course**

Stabilizer Aggregate and Aggregate Surface Course are measured by the ton (megagram). Their weights are determined with certified truck scales as specified in Section 109.

**D. Unsuitable Material**

Removed unsuitable material is measured and paid for as Roadway Excavation-Unclassified, Section 205.

**318.4.01 Limits**

General Provisions 101 through 150.

## 318.5 Payment

### A. Selected Material Surface Course

This item will be paid for at the Contract Unit Price per cubic yard (meter), complete in place and accepted. This payment will be full compensation for:

- Preparing the subgrade
- Furnishing all material
- Loading, hauling, and unloading
- Scarifying
- Pulverizing
- Harrowing
- Spreading
- Mixing, compacting, and shaping
- Maintaining and watering the course

### B. In-Place Selected Material Surface Course

This Item, regardless of the depth of material processed, will be paid for at the Contract Unit Price per square yard (meter), complete in place and accepted.

This payment will be full compensation for:

- Scarifying
- Pulverizing
- Harrowing
- Mixing, compacting, and shaping
- Maintaining and watering the course

### C. Stabilizer Aggregate

The Stabilizer Aggregate will be paid for at the Contract Unit Price per ton (megagram), complete in place and accepted. This payment will be full compensation for:

- Furnishing all material
- Loading, hauling, and unloading
- Scarifying
- Spreading, mixing, compacting, and shaping
- Maintaining and watering the course

### D. Aggregate Surface Course

Aggregate Surface Course will be paid for at the Contract Unit Price per ton (megagram), complete in place and accepted. This payment will be full compensation for:

- Furnishing all material
- Loading, hauling, and unloading
- Spreading, compacting, and shaping
- Maintaining the course

Payment will be made under:

Item No. 318	Selected materials, surface course	Per cubic yard (meter)
Item No. 318	In-place selected material surface course	Per square yard (meter)
Item No. 318	Aggregate surface course	Per ton (megagram)
Item No. 303	Stabilizer aggregate type ____	Per ton (megagram)

**318.5.01 Adjustments**

General Provisions 101 through 150.

## **Section 319—Lime-Fly Ash Soil Construction**

**319.1 General Description**

Specifications for this work will be included elsewhere in the Contract.

## **Section 325—Stabilized Base Material for Patching**

**325.1 General Description**

This work includes patching with soil-cement construction, cement stabilized graded aggregate construction, or select material stabilized construction. Construct according to the Plans, the Proposal, or as directed by the Engineer.

**325.1.01 Definitions**

General Provisions 101 through 150.

**325.1.02 Related References****A. Standard Specifications**

Section 109—Measurement and Payment

Section 209—Subgrade Construction

Section 301—Soil-Cement Construction

Section 316—Cement Stabilized Graded Aggregate Construction

Section 412—Bituminous Prime

Section 810 – Roadway Materials

**B. Referenced Documents**

General Provisions 101 through 150.

**325.1.03 Submittals**

General Provisions 101 through 150.

**325.2 Materials**

Ensure that materials meet the requirements of the following Specifications:

<b>Material</b>	<b>Section</b>
Soil-Cement Construction	301
Cement Stabilized Graded Aggregate Construction	316
Bituminous Prime	412
Subgrade Construction	209

Ensure that the subgrade stabilizer-select material meets the requirements of Subsection 810.2.01, “Roadway Materials—Class IIB3” or better. Any special gradation will be specified by a Special Provision.

**325.2.01 Delivery, Storage, and Handling**

General Provisions 101 through 150.